Rackview LCD Monitor

**INSTALLATION AND
OPERATIONS MANUAL**

ROSE.COM

Rackview LCD Monitor 17"
Rackview LCD Monitor 19"
Rackview LCD Monitor 20"
Rackview LCD Widescreen Monitor 17" (1080p)
Rackview LCD Widescreen Monitor 17" (1920 x 1200)
Rackview LCD Widescreen Monitor 19"

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LIMITED WARRANTY

Rose Electronics warrants the Rackview Product to be in good working order for one year from the date of purchase from Rose Electronics. Should this product fail to be in good working order at any time during this one-year warranty period, Rose Electronics will, at its option, repair or replace the Unit as set forth below. Repair parts and replacement units will be either reconditioned or new. All replaced parts become the property of Rose Electronics. This limited warranty does not include service to repair damage to the Unit resulting from accident, disaster, abuse, or unauthorized modification of the Unit, including static discharge and power surges.

Limited Warranty service may be obtained by delivering this unit during the one-year warranty period to Rose Electronics or an authorized repair center providing a proof of purchase date.
If this Unit is delivered by mail, you agree to insure the Unit or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location, and to use the original shipping container or its equivalent. You must call for a return authorization number first. Under no circumstances will a unit be accepted without a return authorization number. Contact an authorized repair center or Rose Electronics for further information.

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Table of Contents

Safety Instructions

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40º Celsius (104º Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent it being damaged by transient overvoltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

Regulatory Notices Federal Communications Commission (FCC)
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Pre-Installation and Package Contents

Before Installation:

It is very important to mount the equipment in a suitable cabinet or on a stable surface.
Make sure the mounting location has good ventilation, is out of direct sunlight, and away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking:

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact your supplier immediately.

Package Contents:

1x Rackview LCD Unit
1x set of Mounting Bracket (sliding rails)
1x Power Cord
1x VGA Cable
1x User Manual
1x set of screws and washers for assembly

Product Operation:

a) **Power On Procedure**

- Power on the Rackview LCD Monitor (see power switch on back panel)
- Power on the CPU

b) **Video Input Select Button (see OSD Section, Page 12)**

The Rackview remembers the last valid video input selection, so if the CPU input has changed, the user needs to re-select the video input.
- Locate the "Video Input Select" button on the OSD display control panel
- Push the Video Input Select button to toggle between VGA and DVI Input
- Select the appropriate Video Input format (VGA or DVI)

c) **Cleaning Your Monitor**

To clean your LCD safely, please follow these steps:

- Disconnect the power cord.
- Gently wipe the surface using a clean, dry microfiber cloth. Use as little pressure as possible.
- Use only screen cleaning products designed for use with LCD monitors.

Rackview LCD Monitor - Layout Diagram & Dimensions
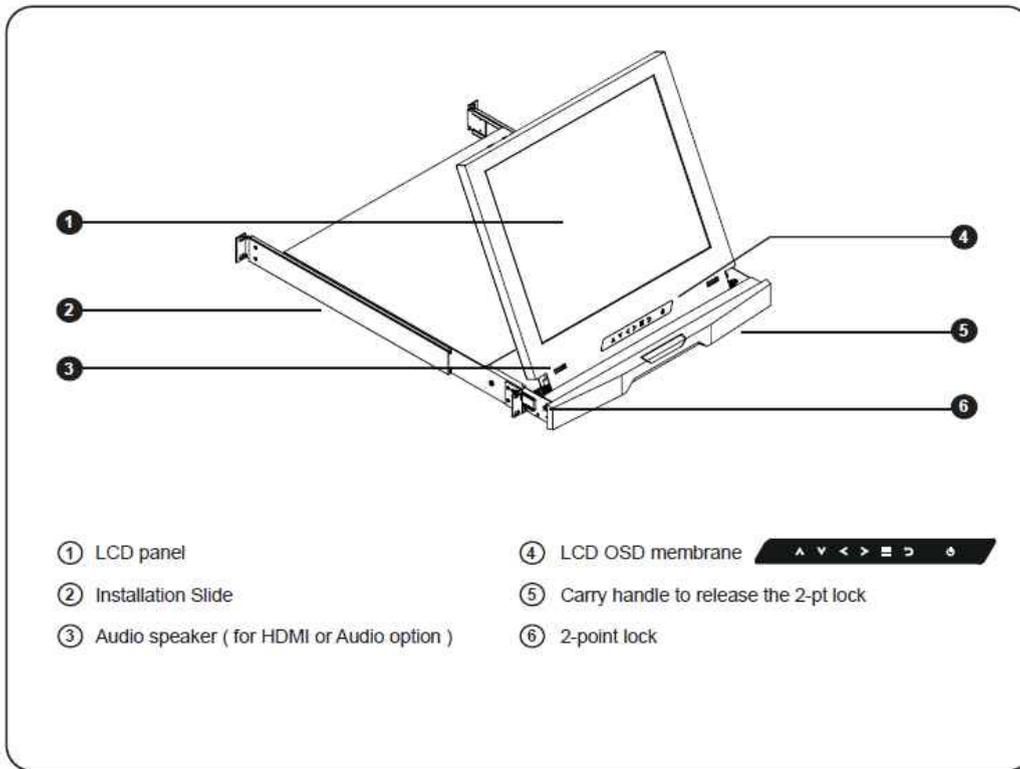
Layout for Rackview LCD Monitor (17", 19", 20")

Model	Product Dimension (W x D x H) approx	Packing Dimension (W x D x H) approx	Net Weight	Gross Weight
RV1-LCDA17	441.6 x 500 x 44 mm 17.4 x 19.7 x 1.73 inch	588 x 758 x 120 mm 23.1 x 29.8 x 4.7 inch	10.5 kg 23 lb	16.5 kg 36 lb
RV1-LCDA19	441.6 x 500 x 44 mm 17.4 x 19.7 x 1.73 inch	588 x 758 x 120 mm 23.1 x 29.8 x 4.7 inch	12.5 kg 28 lb	18.5 kg 41 lb
RV1-LCDA20	439.6 x 650 x 44 mm 17.3 x 25.6 x 1.73 inch	595 x 860 x 140 mm 23.4 x 33.9 x 5.5 inch	13.5 kg 30 lb	17.5 kg 39 lb
RV1-LCDA17/DWS/HD	441.6 x 480 x 44 mm 17.4 x 18.1 x 1.73 inch	588 x 758 x 120 mm 23.1 x 29.8 x 4.7 inch	11 kg 24 lb	15 kg 33 lb
RV1-LCDA17/FHD	441.6 x 480 x 44 mm 17.4 x 19.7 x 1.73 inch	588 x 758 x 120 mm 23.1 x 29.8 x 4.7 inch	11 kg 24 lb	15 kg 33 lb
RV1-LCDA19/DWS	441 x 460 x 44 mm 17.4 x 18.1 x 1.73 inch	588 x 758 x 120 mm 23.1 x 29.8 x 4.7 inch	13 kg 28.6 lb	17 kg 37.4 lb

**The package weight can vary with accessories included**

Rackview LCD Chassis Dimensions

Unit: mm

1mm = 0.03937 inch

Rackview LCD Monitor 17" and 19"	Rackview LCD Monitor 20"
Front View 441.6 19"Rackmount **Side View** 21.4 500 **Top View** 441.6 500	**Front View** 439.6 19"Rackmount **Side View** 21.4 650 **Top View** 439.6 477.1 650

Rackview LCD Widescreen Monitor 17"	Rackview LCD Widescreen Monitor 19"

Rackview LCD Widescreen Monitor 17"

Front View

441.6
19"Rackmount
1U

Side View

21.4
480
1U

Top View

441.6
480

Rackview LCD Widescreen Monitor 19"

Front View

441.6
19"Rackmount
1U

Side View

21.4
460
1U

Top View

441.6
460

Installation of Rackview LCD Monitor 17" and 19" (including Widescreen)
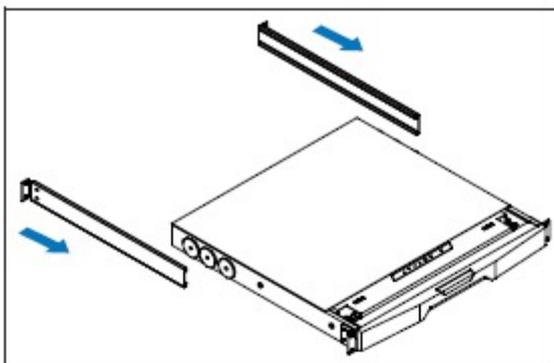
STEP 1

Insert the Left and Right rear-mounting slides into the Rackview Console Drawer.
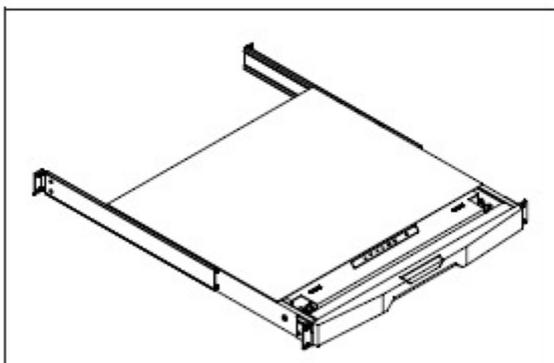
STEP 2

Measure the depth of the front and rear rack rails.

Align each rear-mounting slide to a suitable length (depth).
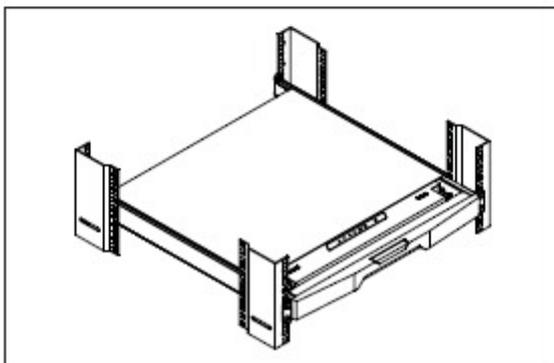
STEP 3

Complete the Installation.

Fix the Rackview Console Drawer into the Rack using the screws, cage nuts and cup washers provided.

Installation of Rackview LCD Monitor 20"
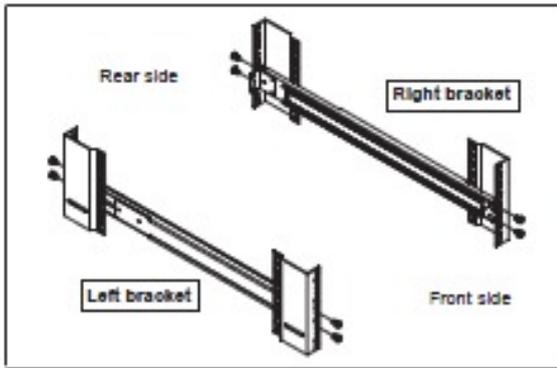
STEP 1

Attach the left and right mounting brackets to the 19" rack rails.

Adjust the mounting brackets to fit the rack.
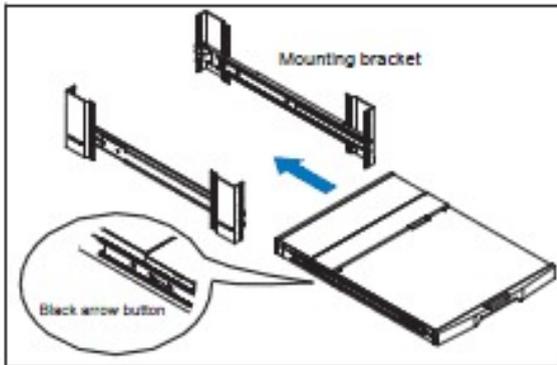
STEP 2

Insert the LCD tray into the mounting bracket.

Pull and hold the left and right black arrow buttons on the rails.

Return the LCD tray to the park position.
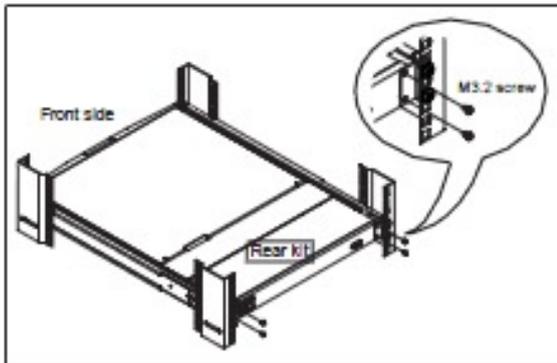
STEP 3

Fix the rear kit to the mounting brackets using the screws provided.
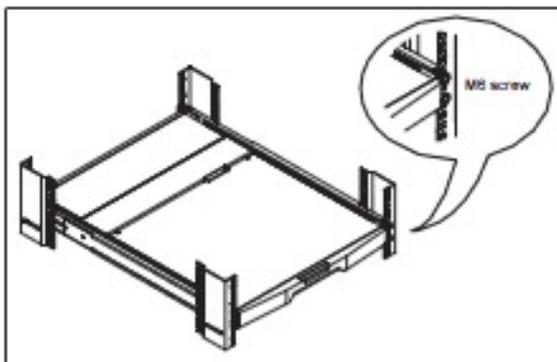
STEP 4

Complete the installation

Fully tighten all screws, front and back, left and right.

On-Screen Display Operation (OSD)
Rackview 17", 19" and 20" Standard and Widescreen Models

| Membrane Switch	Function
⏻	Turn the monitor on or off
☷	Display the OSD menu Act as an Enter key to select screen setting options
∧ ∨ ≪ ≫	Scroll through menu options and adjust the displayed control
⤺	Exit the OSD screen and Input Select Button Go back to the previous on-screen sub-menu or main menu

Remark : All LED touch buttons in **WHITE** light.
The LED of **Power** ⏻ touch button will flash continuously when there is no signal input.

① All the LED touch buttons will automatically turn off after 10 minutes of idle status (except the **Power** ⏻).

② Light up all membrane buttons, please press any button for 1 - 2 seconds (except the **Power** ⏻).

Ver: G56SN20SSTD701   1024 x 768 59.8Hz

Image

Brightness		60
Contrast		50
Color Temp	User	
Red		255
Green		255
Blue		255

Adjust: ↔   Select: ↑↓   Set: ⏻/■   Exit: ⤺
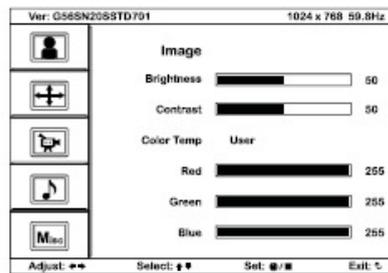
OSD Configuration Page

Image:
for the brightness, contrast, color temp, red, green, and blue

Geometry:
for the auto adjust, H position, V position, phase and clock

Video:
for the colour, tint, sharpness, noise reduction, DCDi and TV Setup

Audio:
for volume, bass, treble, balance, AVL and mute

Misc:
for the language, OSD position, graphic mode, ratio, reset and timer

Rackview 17" Widescreen models only

① Picture

Picture mode :	Standard / Vivid / Soft / User mode to choose
Brightness :	Adjust background black level of the screen image
Contrast :	Adjust the difference between the image background (black level) and the foreground (white level)
Hue:	Adjust the screen hue value
Saturation :	Adjust the saturation of the image color
Picture size :	Adjust the image size
Color temp :	Standard / Cool / Warm / User to choose
Noise reduce :	Reduce the noise of the image
Sharpness :	Adjust the image from weak to sharp

Picture > Picture mode / Brightness / Contrast / Hue / Saturation / Picture size / Color temp / Noise reduce / Sharpness
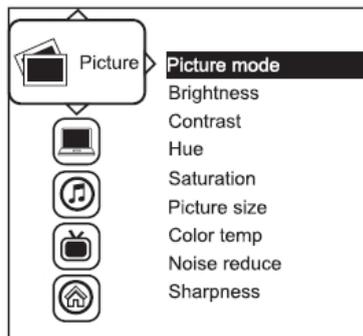
② PC

Auto adjust :	Automatically adjust sizes, centers and fine tunes the video signal to eliminate waviness and distortion.
Clock :	Adjust the clock value
Phase :	Adjust the phase value
H. Position :	Align the screen image left or right
V. Position :	Align the screen image up or down

PC > Auto adjust / Clock / Phase / H positive / V positive
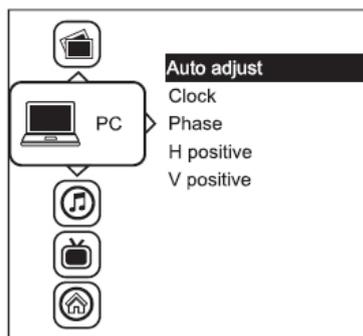
③ Audio

Audio mode :	Movie / Voice / Normal / Music mode to choose
Volume :	Adjust the volume of sound
Bass :	Set the value of bass sound
Treble :	Set the value of treble sound
Balance :	Set the balance value of treble and bass sound
Analog TV audio :	Set the value of analog TV audio sound
Mute :	Turn off the surrounding sound

Audio > Audio mode / Volume / Audio track / Bass / Treble / Balance / Analog TV audio / Mute
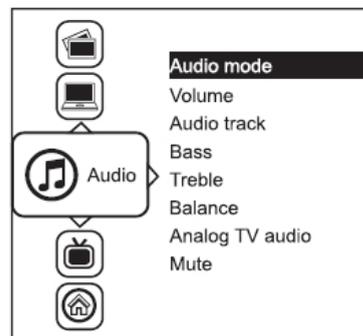
④ MISC

Language :	Select the language in which the OSD menu is displayed - English
Sleep timer :	Set the off time
PIP mode :	Adjust picture in picture setting
PIP position :	Enter into PIP position
PIP source :	Enter into the Sub source and sound source
System reset :	Return the adjustment back to factory setting
Information :	Select for Help

MISC > Language / Sleep timer / PIP mode / PIP position / PIP source / System reset / Information
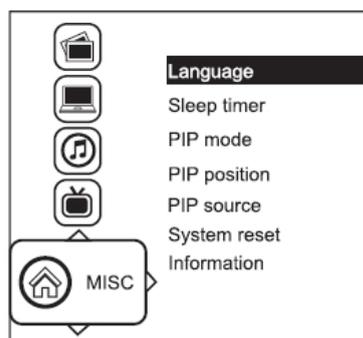
Picture In Picture and Picture By Picture Modes (PIP and PBP)

Rackview 17" Widescreen models only

1. Picture-In-Picture (PIP)

Mode
Display the Sub screen in the Main screen.
OSD Menu → MISC → PIP Mode → Large / Small / OFF

Position
Adjust the position of the Sub screen (top left, bottom left, top right, bottom right)
OSD Menu → MISC → PIP Position → top left / top right / bottom left / bottom right

top left

top right

bottom left

bottom right

2. Screen Size

Note, the Rackview 17"/DWS/HD supports up to 1920x1080p.
The Rackview 17"/FHD supports up to 1920 x 1200

Size
Adjust the size of the Sub screen (Large / Small)
OSD Menu → MISC → PIP Mode → Large / Small

Size of Sub screen

LCD Monitor	Large Sub screen	Small Sub screen
1920 x 1200	552 x 414	480 x 360
1920 x 1080	552 x 414	480 x 360
1440 x 900	414 x 310	360 x 270
1366 x 768	392 x 294	340 x 254
1280 x 1024	368 x 276	320 x 240

3. Picture-By-Picture (PBP)

Mode

Display the Sub screen next to the Main screen.
OSD Menu → MISC → PIP Mode → PBP

Main screen → Sub screen

Size

LCD Monitor	Main / Sub screen
1920 x 1200	955 x 716
1920 x 1080	955 x 716
1440 x 900	715 x 536
1366 x 768	678 x 508
1280 x 1024	635 x 476

4. PIP / PBP Source

To select an input signal for PIP / PBP Sub screen.
OSD Menu → MISC → PIP Source → VGA / S-Video / Composite / DVI / HDMI / SDI / YPbPr / TV

The PIP / PBP is operable in the following table :

Main \ Sub	VGA	S-Video	Composite	DVI-D	HDMI	SDI	YPbPr	TV
VGA	X	O	O	O	O	O	O	O
S-Video	O	X	X	O	O	O	O	X
Composite	O	X	X	O	O	O	O	X
DVI	O	O	O	X	X	O	O	O
HDMI	O	O	O	X	X	O	O	O
SDI	O	O	O	O	O	X	X	O
YPbPr	O	O	O	O	O	X	X	O
TV	O	X	X	O	O	O	O	X

Options for Rackview LCD Monitor, Standard and Widescreen Models

a) **HDMI** - HDMI 1.1, CEA-861-D
b) **Audio** - 3.5mm analog audio jacks, 2W +speakers
c) **AV** - S-Video + Composite, BNC (Standard 17"/19"/20" and Widescreen 19" only)
d) **3G/SDI** - 3G/HD/SDI video (Widescreen 17" and 19" models only)

Select either DVI or HDMI connector.
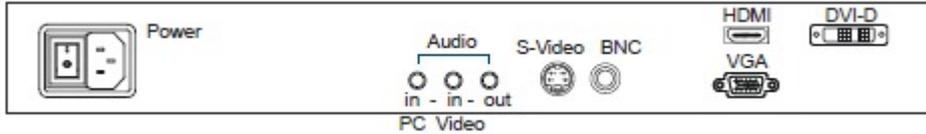
Back panel of the Rackview LCD Monitor showing standard and optional connectors.
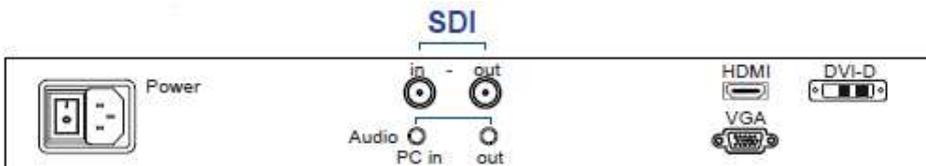
Back panel of the Rackview LCD Monitor showing standard and optional SDI connectors.

e) **DC Power**

Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%
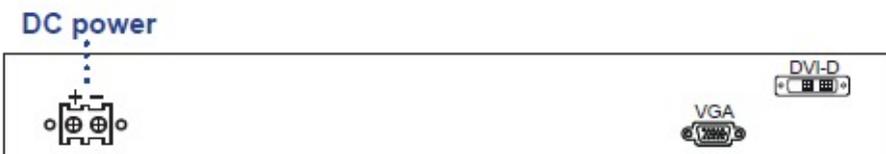
Back panel of the Rackview LCD Monitor showing the location of DC power connector block.

Note: For all above options, the Rackview LCD Monitor chassis depth will be extended by approximately 70mm (2.75") more than the standard chassis depth.

Touchscreen Options

a) Resistive and Capacitive Touchscreens

Rackview 17", Widescreen High Resolution (1920x1200) and 19" models only

Model	17'	19"	17"	19"
	TRB e-Resistive		TCB e-Capacitive	
Technology	5-Wire Resistive		Capacitive	
Touch Point	Single		Single	
Method	Stylus or Finger		Finger	
Activation Force	≤ 50g / Stylus=R0.8		≤ 50g	
Durability	35 million touches		300 million touches	
Response Time	15 ms		20 ms	
Optical Transmittance	80% ± 3%		93% ±2%	
Surface Hardness	3H		9H	
Haze	8% ± 3%		7%	
Glass	1.4 ±0.2 mm	3.2 ±0.2 mm	2.8 mm ±10%	2.8 mm ±10%
Connector	USB Type A		USB Type A	
Compatibility	Windows 7 / XP / Vista, Linux		Windows 7 / XP / Vista, Linux	

a) Resistive Touchscreens

Rackview 17" Widescreen 1080p model

Model	TRB e-Resistive
Technology	5-Wire Resistive
Touch Point	Single
Method	Stylus or Finger
Activation Force	≤ 50g / Stylus=R0.8
Durability	10 million touches
Response Time	15 ms
Optical Transmittance	80% ± 3%
Surface Hardness	3H
Haze	8% ± 3%
Glass	2.2 ±0.2 mm
Connector	USB Type A
Compatibility	Windows 7 / XP / Vista, Linux

Back panel of Rackview LCD Touchscreen Monitor, showing the location of the connectors.

Note: For the touchscreen option, the Rackview LCD chassis depth will be extended by approximately 70mm (2.75") more than the standard chassis depth.
A bundled software setup disc is included with this option.

Please check with Rose Electronics for pricing and availability of these options.

Video Format

Rackview LCD Monitor 17", 19", 20"

DVI-D / VGA Input	Rackview LCD Monitor, 17" and 19" Resolution/Refresh Rate	Rackview LCD Monitor, 20" Resolution/Refresh Rate
	---	1600 x 1200 x 60Hz
	---	1440 x 1050 x 60Hz
	---	1440 x 900 x 60Hz
	---	1360 x 768 x 60Hz
	1280 x 1024 x 60Hz / 75Hz	1280 x 1024 x 60Hz / 75Hz
	1280 x 960 x 60Hz	1280 x 960 x 60Hz
	1280 x 760 x 60Hz / 75Hz	1280 x 760 x 60Hz / 75Hz
	1152 x 864 x 75Hz	1152 x 864 x 75Hz
	1024 x 768 x 60Hz / 70Hz / 75Hz	1024 x 768 x 60Hz / 70Hz / 75Hz
	848 x 480 x 60Hz	848 x 480 x 60Hz
	800 x 600 x 60Hz / 72Hz / 75Hz	800 x 600 x 60Hz / 72Hz / 75Hz
	720 x 400 x 70Hz	720 x 400 x 70Hz
	640 x 480 x 60Hz / 72Hz / 75Hz	640 x 480 x 60Hz / 72Hz / 75Hz
	640 x 400 x 70Hz	640 x 400 x 70Hz
	640 x 350 x 70Hz	640 x 350 x 70Hz

Rackview LCD Widescreen Monitor 17" and 19"

DVI-D / VGA Input	LCD Monitor, 17" (1080p) Resolution/Refresh Rate	LCD Monitor, 17" (1920 x 1200) Resolution/Refresh Rate	LCD Monitor, 19" (1440 x 900) Resolution/Refresh Rate
		1920 x 1200 x 60Hz	---
	1920 X 1080 X 60Hz	---	---
	---	---	1440 x 900 x 60Hz
	1360 x 768 x 60Hz	1360 x 768 x 60Hz	---
	1280 x 1024 x 60Hz / 75Hz	1280 x 1024 x 60Hz / 75Hz	1280 x 1024 x 60Hz / 75Hz
	1280 x 960 x 60Hz	1280 x 960 x 60Hz	1280 x 960 x 60Hz
	1280 x 760 x 60Hz / 75Hz	1280 x 760 x 60Hz / 75Hz	1280 x 760 x 60Hz / 75Hz
	1152 x 864 x 75Hz	1152 x 864 x 75Hz	1152 x 864 x 75Hz
	1024 x 768 x 60Hz / 70Hz / 75Hz	1024 x 768 x 60Hz / 70Hz / 75Hz	1024 x 768 x 60Hz / 70Hz / 75Hz
	848 x 480 x 60Hz	848 x 480 x 60Hz	848 x 480 x 60Hz
	800 x 600 x 60Hz / 72Hz / 75Hz	800 x 600 x 60Hz / 72Hz / 75Hz	800 x 600 x 60Hz / 72Hz / 75Hz
	720 x 400 x 70Hz	720 x 400 x 70Hz	720 x 400 x 70Hz
	640 x 480 x 60Hz / 72Hz / 75Hz	640 x 480 x 60Hz / 72Hz / 75Hz	640 x 480 x 60Hz / 72Hz / 75Hz
	640 x 400 x 70Hz	640 x 400 x 70Hz	640 x 400 x 70Hz
	640 x 350 x 70Hz	640 x 350 x 70Hz	640 x 350 x 70Hz

Rackview LCD Monitor - Specification

Rackview LCD Monitor	17" LCD	17" WS LCD	17" HI-RES LCD	19" LCD	19" WS LCD	20" LCD
Dimensions (in) W x D x H (mm)	17.4x19.7x1.73 441.6 x 500 x 44	17.4x 18.9x1.73 441.6 x 500 x 44	17.4x 18.9x1.73 441.6 x 500 x 44	17.4x19.7x1.73 441.6 x 500 x 44	17.4 x18.1x1.73 441.6 x 460 x 44	17.3x25.6x1.73 440 x 650 x 44
Weight	23lbs (10.5kg)	24lbs (11kg)	24lbs (11kg)	28lbs (12.5kg)	28.6lbs (13kg)	30lbs (13.5kg)
Size	17" TFT	17.3" TFT	17.1" TFT	19" TFT	19" Wide TFT	20.1" TFT
Resolution	1280 x 1024	1920 x 1080p	1920 x 1200 HD	1280 x 1024	1440 x 900	1600 x 1200
Brightness c d/m2	250	300	210	250	250	300
Backlight	CCFL	LED	LED	LED	LED	CCFL
Colors	16.7M	1.07 B (10 Bit)	16.7M (8 bit)	16.7M	16.7M	16.7M
Contrast Ratio	1000:1	600:1	600:1	1000:1	1000:1	800:1
Viewing Angle H/V	160° x 160°	178° x 178°	130° x 110°	170° x 160°	160° x 160°	178° x 178°
Active Area (mm)	338 x 270	382 x 215	367 x 230	376 x 301	408 x 255	408 x 306
Screen Surface	Haze 25%. Hard	Anti Glare. Hard	Anti Glare. Hard	Haze 25%. Hard	Haze 25%. Hard	Anti Glare.Hard
Response Time - ms	5	35	30	5	5	16
PIP Function	No	Yes	Yes	No	No	No
Touchscreen-USB	Yes (Cap + Res)	Yes (Res only)	Yes (Cap + Res)	Yes (Cap + Res)	No	No
Video Signal	VGA (Analog 0.7Vp-p). DVI-D (TMDS single link)					
Shock	10G acceleration (11ms duration)					
Vibration	5~500Hz 1G RMS random vibration					
Audio (Option)	3.5mm with L/R Speakers. Impedance 30KΩ / 750mV. Speaker Power – 2*2W					
AC Power	100-240VAC, 50/60HZ					
Consumption-Watt	Max 25 / Idle 5	Max 34 / Idle 5	Max 34 / Idle 5	Max 25 / Idle 5	Max 25 / Idle 5	Max 48 / Idle 5
Environmental Operating Temp Storage Temp Reltv Humidity	32°F—122°F / 0°C—50°C 23°F—140°F / -5°C—60°C 5–90% non-condensing					
Approvals	FCC, CE, RoHS2, Reach					

Part Numbers

RV1-LCDA17	17" LCD Monitor
RV1-LCDA19	19" LCD Monitor
RV1-LCDA20	20" LCD Monitor
RV1-LCDA17/DWS/HD	17" LCD Monitor/Widescreen (1080p)
RV1-LCDA17/FHD	17" LCD Monitor/Full HD
RV1-LCDA19/WS	19" LCD Monitor/Widescreen

Optional Items: (check with Rose Electronics for pricing and availability)
- HDMI Interface
- Audio Option
- AV - S-Video Composite, BNC (Standard 17"/19"/20" and Widescreen 19" only)
- 3G/HD/SDI (Widescreen 17" and 19" models only)
- Touchscreen - Resistive Panel (Standard 17", 19" , Widescreen 1080p and Widescreen 1920x1200 models only)
- Touchscreen - Capacitive Panel (Standard 17" , 19" and Widescreen 1920 x1200 models only)
- DC Voltage Option (12/24/48VDC)

Technical Support

If you are experiencing problems, or need assistance in setting up, configuring or operating your product, consult the appropriate sections of this manual. If, however, you require additional information or assistance, please contact the Rose Electronics Technical Support Department at:

    Phone: (281) 933-7673
    E-Mail: techsupport@rose.com
    Web: www.rose.com

Technical Support hours are from: 8:00 am to 6:00 pm CST (USA), Monday through Friday.

Please report any malfunctions in the operation of this Unit or any discrepancies in this manual to the Rose Electronics Technical Support Department.